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Sequence Listing could not be accepted.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2009; month=9; day=8; hr=12; min=6; sec=15; ms=894;]

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Reviewer Comments:

<210> 1

<211> 776

<212> PRT

<213> mammalian

Although the above <213> response had been accepted in the previous 10/568396 submission, it is erroneous. The only valid <213> responses, per Sequence Rules, are: the Genus species of the organism, "Artificial Sequence", or "Unknown". "Artificial Sequence" and "Unknown" require explanation in the <220>-<223> section; please give the source of the genetic material. Same response in Sequence 2.

<210> 11

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

The above <223> response is an insufficient explanation of "Artificial Sequence": please clearly give the source of the genetic material. Same response in Sequences 12-14.

Application No: 10568396 Version No: 2.0

Input Set:

Output Set:

Started: 2009-08-25 11:11:22.820
Finished: 2009-08-25 11:11:24.257
Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 437 ms
Total Warnings: 14
Total Errors: 0
No. of SeqIDs Defined: 14
Actual SeqID Count: 14

Error code	Error Description
W 402	Undefined organism found in <213> in SEQ ID (1)
W 402	Undefined organism found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
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W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)

SEQUENCE LISTING

<110> THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK

<120> ZAP PROTEIN AND RELATED COMPOSITIONS AND METHODS

<130> 67489-PCT/JPW/JW

<140> 10568396

<141> 2006-08-31

<150> PCT/US2004/026162

<151> 2004-08-12

<160> 14

<170> PatentIn version 3.5

<210> 1

<211> 776

<212> PRT

<213> mammalian

<400> 1

Met	Ala	Asp	Pro	Gly	Val	Cys	Cys	Phe	Ile	Thr	Lys	Ile	Leu	Cys	Ala
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His	Gly	Gly	Arg	Met	Thr	Leu	Glu	Glu	Leu	Leu	Gly	Glu	Ile	Arg	Leu
			20					25					30		

Pro	Glu	Ala	Gln	Leu	Tyr	Glu	Leu	Leu	Glu	Thr	Ala	Gly	Pro	Asp	Arg
		35					40					45			

Phe	Val	Leu	Leu	Glu	Thr	Gly	Gly	Gln	Ala	Gly	Ile	Thr	Arg	Ser	Val
50						55					60				

Val	Ala	Thr	Thr	Arg	Ala	Arg	Val	Cys	Arg	Arg	Lys	Tyr	Cys	Gln	Arg
65				70					75					80	

Pro	Cys	Asp	Ser	Leu	His	Leu	Cys	Lys	Leu	Asn	Leu	Leu	Gly	Arg	Cys
			85					90						95	

His	Tyr	Ala	Gln	Ser	Gln	Arg	Asn	Leu	Cys	Lys	Tyr	Ser	His	Asp	Val
		100					105						110		

Leu	Ser	Glu	Gln	Asn	Phe	Gln	Ile	Leu	Lys	Asn	His	Glu	Leu	Ser	Gly
		115					120					125			

Leu Asn Gln Glu Glu Leu Ala Cys Leu Leu Val Gln Ser Asp Pro Phe
130 135 140

Phe Leu Pro Glu Ile Cys Lys Ser Tyr Lys Gly Glu Gly Arg Lys Gln
145 150 155 160

Thr Cys Gly Gln Pro Gln Pro Cys Glu Arg Leu His Ile Cys Glu His
165 170 175

Phe Thr Arg Gly Asn Cys Ser Tyr Leu Asn Cys Leu Arg Ser His Asn
180 185 190

Leu Met Asp Arg Lys Val Leu Thr Ile Met Arg Glu His Gly Leu Ser
195 200 205

Pro Asp Val Val Gln Asn Ile Gln Asp Ile Cys Asn Asn Lys His Ala
210 215 220

Arg Arg Asn Pro Pro Gly Thr Arg Ala Ala His Pro His Arg Arg Gly
225 230 235 240

Gly Ala His Arg Asp Arg Ser Lys Ser Arg Asp Arg Phe Leu His Asn
245 250 255

Ser Leu Glu Phe Leu Ser Pro Val Val Ser Pro Leu Gly Ser Gly Pro
260 265 270

Pro Ser Pro Asp Val Thr Ser Cys Lys Asp Ser Leu Glu Asp Val Ser
275 280 285

Val Asp Val Thr Gln Lys Phe Lys Tyr Leu Gly Thr His Asp Arg Ala
290 295 300

Gln Leu Ser Pro Val Ser Ser Lys Ala Ala Gly Val Gln Gly Pro Ser
305 310 315 320

Gln Met Arg Ala Ser Gln Glu Phe Ser Glu Asp Gly Asn Leu Asp Asp
325 330 335

Ile Phe Ser Arg Asn Arg Ser Asp Ser Ser Ser Ser Arg Ala Ser Ala
340 345 350

Ala Lys Val Ala Gln Arg Asn Glu Ala Val Ala Met Lys Met Gly Met

355

360

365

Glu Val Lys Gly Lys Lys Glu Ala Pro Asp Ile Asp Arg Val Pro Phe
370 375 380

Leu Asn Ser Tyr Ile Asp Gly Val Thr Met Glu Lys Ala Ser Val Ser
385 390 395 400

Gly Ile Pro Gly Lys Lys Phe Thr Ala Asn Asp Leu Glu Asn Leu Leu
405 410 415

Leu Leu Asn Asp Thr Trp Lys Asn Val Ala Lys Pro Gln Asp Leu Gln
420 425 430

Thr Thr Gly Arg Ile Thr Asp Ser Gly Gln Asp Lys Ala Phe Leu Gln
435 440 445

Asn Lys Tyr Gly Gly Asn Pro Val Trp Ala Ser Ala Ser Thr His Asn
450 455 460

Ala Pro Asn Gly Ser Ser Gln Ile Met Asp Glu Thr Pro Asn Val Ser
465 470 475 480

Lys Ser Ser Thr Ser Gly Phe Ala Ile Lys Pro Ala Ile Ala Gly Gly
485 490 495

Lys Glu Ala Val Tyr Ser Gly Val Gln Ser Pro Arg Ser Gln Val Leu
500 505 510

Ala Val Pro Gly Glu Ala Thr Thr Pro Val Gln Ser Asn Arg Leu Pro
515 520 525

Gln Ser Pro Leu Ser Ser Ser Ser His Arg Ala Ala Ala Ser Gly Ser
530 535 540

Pro Gly Lys Asn Ser Thr His Thr Ser Val Ser Pro Ala Ile Glu Ser
545 550 555 560

Ser Arg Met Thr Ser Asp Pro Asp Glu Tyr Leu Leu Arg Tyr Ile Leu
565 570 575

Asn Pro Leu Phe Arg Met Asp Asn His Gly Pro Lys Glu Ile Cys Gln
580 585 590

Asp His Leu Tyr Lys Gly Cys Gln Gln Ser His Cys Asp Arg Ser His
 595 600 605

Phe His Leu Pro Tyr Arg Trp Gln Met Phe Val Tyr Thr Thr Trp Arg
 610 615 620

Asp Phe Gln Asp Met Glu Ser Ile Glu Gln Ala Tyr Cys Asp Pro His
 625 630 635 640

Val Glu Leu Ile Leu Ile Glu Asn His Gln Ile Asn Phe Gln Lys Met
 645 650 655

Thr Cys Asp Ser Tyr Pro Ile Arg Arg Leu Ser Thr Pro Ser Tyr Glu
 660 665 670

Glu Lys Pro Leu Ser Ala Val Phe Ala Thr Lys Trp Ile Trp Tyr Trp
 675 680 685

Lys Asn Glu Phe Asn Glu Tyr Ile Gln Tyr Gly Asn Glu Ser Pro Gly
 690 695 700

His Thr Ser Ser Asp Ile Asn Ser Ala Tyr Leu Glu Ser Phe Phe Gln
 705 710 715 720

Ser Cys Pro Arg Gly Val Leu Pro Phe Gln Ala Gly Ser Gln Lys Tyr
 725 730 735

Glu Leu Ser Phe Gln Gly Met Ile Gln Thr Asn Ile Ala Ser Lys Thr
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Glu Gln Lys Arg Arg Gly Pro Glu
 770 775

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 <212> DNA
 <213> mammalian

<400> 2
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aacaaacacg ccaggaggaa cccgcctggc acgagagctg cccatccaca ccgcagaggc	720
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caagggatga ttcagacaaa tatagcttcc aagactcaaa ggcatgttgt cagaaggcca	2280
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR Primer

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cgccaagttg accagtgc	78

<210> 4
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR Primer

<400> 4	
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<210> 5
 <211> 38
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Oligonucleotide

<400> 5	
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<210> 6
 <211> 38
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Oligonucleotide

 <400> 6
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<210> 7
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> PCR Primer

 <400> 7
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<210> 8
 <211> 34
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> PCR Primer

 <400> 8
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<210> 9
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> PCR Primer

 <400> 9
 gagctctctg ggcttaacc 19

<210> 10
 <211> 34
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> PCR Primer

<400> 10
atataggcgg cgcgcctctg gacctcttct cttc

34

<210> 11
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 11

Cys Arg Arg Lys Tyr Cys Gln Arg Pro Cys Asp Ser Leu His
1 5 10

<210> 12
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 12

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<210> 13
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide

<400> 13

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Gln Pro Cys Glu Arg Leu His
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<210> 14
<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> peptide

<400> 14

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10

15

Ser His